

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of

MIRACLE ET AL.

Atty. Ref.: FPP-4314-15; Confirmation No. 1866

Appl. No. 10/581,998

TC/A.U. Unknown

Filed: June 7, 2006

Examiner: Unknown

For: TITANIUM ALLOY MICROSTRUCTURAL REFINEMENT METHOD AND HIGH
TEMPERATURE, HIGH STRAIN RATE SUPERPLASTIC FORMING OF TITANIUM
ALLOYS

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May 26, 2011

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

RESPONSE TO RESTRICTION REQUIREMENT

The Examiner has required Restriction to one of the following inventions in the above-identified Patent Application:

- I Claims 1-14, drawn to a method for refining the microstructure in titanium alloys containing boron in a single thermo-mechanical processing step wherein the boron-containing titanium alloy would have a fine-grained, equiaxed microstructure.
- II Claims 15-26, drawn to a method for achieving beta-phase superplasticity alloys containing boron comprising deforming under beta-phase strain rates and temperatures that correlate with the boron content in the alloy.